

WHAT IS CLAIMED IS:

- 1 1. A forging work method, comprising steps of:
2 providing a metallic plate member;
3 providing a first punch, operable to perform a first forging work to
4 mold a first member in the plate member;
5 providing a second punch, operable to perform a second forging work
6 to mold a second member in the plate member;
7 actuating the first punch up to a maximum stroke position thereof,
8 while molding the first member; and
9 actuating the second punch, while keeping the first punch at the
10 maximum stroke position.
- 1 2. The forging work method as set forth in claim 1, wherein the first
2 member has a higher minuteness than the second member.
- 1 3. The forging work method as set forth in claim 1, wherein the first
2 forging work and the second forging work are performed on a single stage.
- 1 4. The forging work method as set forth in claim 1, wherein the second
2 forging work is a perforating work.
- 1 5. The forging work method as set forth in claim 1, wherein the second
2 member comprises at least a positioning member to be used when the plate
3 member is assembled with another member.

1 6. The forging work method as set forth in claim 1, wherein:
2 the first forging work includes a first work for preforming the first
3 member and a second work for finishing the first member; and
4 the second forging work is performed after the second work of the first
5 forging work.

1 7. A forging work method, comprising steps of:
2 providing a metallic plate member;
3 providing a first punch, operable to perform a first forging work to
4 mold a first member in the plate member, the first member has a first function;
5 and
6 providing a second punch, operable to perform a second forging work
7 to mold a second member in the plate member, the second member including
8 at least one kind of positioning member;
9 wherein the first forging work and the second forging work are
10 performed at a single stage.

1 8. The forging work method as set forth in claim 7, wherein the first
2 member is molded before the second member is molded.

1 9. The forging work method as set forth in claim 8, wherein:
2 the first punch is first actuated up to a maximum stroke position
3 thereof, while molding the first member; and
4 the second punch is actuated, while keeping the first punch at the

5 maximum stroke position.

1 10. The forging work method as set forth in claim 9, wherein:
2 the first forging work includes a first work for preforming the first
3 member and a second work for finishing the first member; and
4 the second forging work is performed after the second work of the first
5 forging work.

1 11. The forging work method as set forth in claim 7, wherein the first
2 member is provided as recesses, and the positioning member is provided as at
3 least two through holes.

1 12. The forging work method as set forth in claim 11, wherein the
2 recesses are arranged at a fixed pitch.

1 13. The forging work method as set forth in claim 12, wherein the fixed
2 pitch is 0.3mm or less.

1 14. The forging work method as set forth in claim 7, wherein the metallic
2 plate member is comprised of nickel.

1 15. The forging work method as set forth in claim 11, wherein the first
2 member and the second member are arranged as close as possible.

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1 16. A method of manufacturing a liquid ejection head in which the plate
2 member subjected to the forging work method as set forth in claim 11 is
3 incorporated, the method comprising steps of:
4 perforating a through hole at a bottom of each of the recesses;
5 joining a sealing plate to the plate member so as to seal the recesses
6 to form a plurality of pressure generating chambers, while using the positioning
7 member; and
8 joining a metallic nozzle plate formed with a plurality of nozzles, such
9 that each of the nozzles is communicated with associated one of the pressure
10 generating chambers via the through hole, while using the positioning member.